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PPLICATION NO. FILING DATE		NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/843,875	04	/30/2001	Kazumi Tabuchi	1152-0275P	1199	
2292	7590	07/26/2005		EXAM	EXAMINER	
BIRCH ST		OLASCH & BI	PHAM, TH	PHAM, THIERRY L		
		22040-0747		ART UNIT	PAPER NUMBER	
	- ,			2624		

DATE MAILED: 07/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	App	lication No.	Applicant(s)	
	09/8	843,875	TABUCHI, KAZUMI	
Office Action Summa	ery Exa	miner	Art Unit	
	Thie	erry L Pham	2624	
The MAILING DATE of this co		_	with the correspondence addr	<del>9</del> SS
A SHORTENED STATUTORY PER THE MAILING DATE OF THIS COM  - Extensions of time may be available under the p after SIX (6) MONTHS from the mailing date of t  - If the period for reply specified above is less that - If NO period for reply is specified above, the max  - Failure to reply within the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.7	MMUNICATION. rovisions of 37 CFR 1.136(a). In his communication. n thirty (30) days, a reply within to kimum statutory period will apply for reply will, by statute, cause months after the mailing date of	n no event, however, may the statutory minimum of the y and will expire SIX (6) Mo the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this comm ABANDONED (35 U.S.C. § 133).	munication.
Status				
1) Responsive to communication	n(s) filed on <u>30 April 20</u>	<u>001</u> .		
2a)  This action is FINAL.	2b)⊠ This actio	n is non-final.		
3) Since this application is in cor	ndition for allowance ex	cept for formal ma	atters, prosecution as to the m	nerits is
closed in accordance with the	practice under Ex par	te Quayle, 1935 C	.D. 11, 453 O.G. 213.	
Disposition of Claims		•		
4)⊠ Claim(s) <u>1-18</u> is/are pending i	n the application.			
4a) Of the above claim(s)		m consideration.		
5) Claim(s) is/are allowed				
6)⊠ Claim(s) <u>1-18</u> is/are rejected.				
7) Claim(s) is/are objected	d to.			
8) Claim(s) are subject to	restriction and/or elec	tion requirement.		
Application Papers				
9)⊠ The specification is objected to	by the Examiner.			
10)⊠ The drawing(s) filed on <u>30 Apr</u>	<u> </u>	cepted or b) obi	ected to by the Examiner.	
Applicant may not request that ar		• • •		
Replacement drawing sheet(s) in				1.121(d).
11)☐ The oath or declaration is obje		•	• • •	• •
Priority under 35 U.S.C. § 119				
12)⊠ Acknowledgment is made of a	claim for foreign priori	ty under 35 H.S.C.	& 119(a) <sub>-</sub> (d) or (f)	
a)⊠ All b)□ Some * c)□ None		ty unique 00 0.0.0.	3 110(a) (a) 01 (i).	
1.⊠ Certified copies of the p		e been received.		
2.☐ Certified copies of the p			Application No	
·			en received in this National St	age
application from the Inte	•			-90
* See the attached detailed Office	Y	` ''	ot received.	
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Attachment(s)		, <b>–</b>		
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Re</li> </ol>	eview (PTO-948)	4) ∐Interview Paper No	y Summary (PTO-413) o(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-Paper No(s)/Mail Date 7/27/01.			Informal Patent Application (PTO-1	52)
.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	Office Action S	ummary	Part of Paper No./Mail Date	20041102

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### **DETAILED ACTION**

## Specification

• The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

# Claim Rejections - 35 USC § 112

• The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

• Claims 3-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Regarding claims 3-4, the limitations as cited are unclear and/or confusing. The recovery treatment should only take place when the determination of last printed operation time is "valid" according to the originally filed specification. An appropriate action is required.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hori (U.S. 5847726), and in view of Mizutani (U.S. 6078400).

Regarding claim 1, Hori discloses an ink-jet printer system (inkjet printing system, fig. 3) wherein the ink-jet printer (printer 1, fig. 3) is provided with a storage means (RAM 24 for storing completion of last printed operation (latest printing time S2), fig. 4, col. 3, lines 6-30 and cols. 8, lines 15-35 and cols. 9-10, the latest printing time must be stored prior for retrieval)

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which updates and stores the completion time of the last printing operation (latest printing time and present time, fig. 4, and also notes second period as shown in fig. 4 is computed by subtracting last printing time from present time) and each host machine (host computer 30, fig. 3) is provided with a print control means (host computer includes a CPU 31 of fig. 3 for controlling the operation of the printers and reads out completion time of last printed operation, fig.7) which reads out the completion time from the ink-jet printer at the start of a printing operation (recovery process starts of a beginning of a printing operation, fig. 7), compares it with the current time (comparing the current time with the time of last printed operation, fig. 7, cols. 9-10) and selectively issues an execution order of a recovery treatment (i.e. purging/flushing operations/tasks based upon the comparison results, fig. 7, cols. 9-10) to the ink-jet printer based on the result of the comparison.

Hori discloses the inkjet printing system as shown in fig. 3; but fail to teach an ink-jet printer is shared by multiple number of host machines/computers.

Mizutani, in the same field of endeavor for ink-jet printing system, teaches that it is well known in the art at the time of the invention to have an ink-jet printer shared by multiple number of host machines/computers (ink-jet printer 3 is shared with multiple client apparatuses 1-2, fig. 1).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the inkjet printer of Mori to be shared by multiple number of host machines as per teachings of Mizutani because of the following reasons: (a) to allow an inkjet printer to be shared with multiple of users, therefore, reducing hardware costs; (b) to improve versatility.

Therefore, it would have been obvious to combine Mori with Mizutani to obtain the invention as specified in claim 1.

Regarding claim 2, Hori further teaches the ink-jet printer according to claim 1, wherein the print control means (host computer, fig. 3) includes a time measuring means (real time clock 35, fig. 3) for measuring the current time and transfers the current time measured by the time measuring means at the end of a printing operation to the ink-jet printer as the completion time of the printing operation (current time and last printed completion time, col. 6, lines 15-40).

Regarding claims 3-4, Hori further teaches the ink-jet printer according to claim 1, wherein the print control means determines whether or not the completion time of the last printing operation read out from the ink-jet printer is valid (determine whether the last printed operation time was accurately recorded, col. 10, lines 40-67+) and gives an execution order of a recovery treatment (i.e. purging/flushing operations/tasks based upon the comparison results, fig. 7, cols. 9-10) if the completion time is invalid.

Regarding claims 5-7, Hori further teaches the ink-jet printer according to claim 1, wherein if the completion time which was read from the ink-jet printer at the end of the last printing operation indicates a later time than the current time (last printed operation time is later than the current time read from the host computer, col. 10, lines 40-67+), the print control means issues to the ink-jet printer a command of prohibiting (update is not necessary due to inaccuracy of time recorded, cols. 10-11) the update of the completion time held in the storage means.

Regarding claims 8-16, Hori further teaches the ink-jet printer according to claim 1, wherein if the completion time which was read from the ink-jet printer at the end of the last printing operation indicates a later time than the current time, the print control means informs that fact to other host machines and provides warning (informs users to update host computer's time to reflect the correct current time, col. 10, lines 40-67+).

Regarding claim 17, Hori further teaches the ink-jet printer according to claim 2, further comprising: a clock server (host computer includes a real time clock, fig. 6) for indicating the current time, wherein the print control means reads the current time from the clock server at regular intervals and updates the current time measured by the time measuring means based on the read current time.

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Regarding claim 18, Hori further teaches the ink-jet printer according to claim 1, further comprising: a clock server (host computer includes a real time clock, fig. 6) for indicating the current time, wherein the storage means updates and stores the current time indicated by the clock server at the printing operation end as the completion time of the last printing operation (current and last printed completion time, fig. 4).

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents/publications are relevant to applicant's disclosure invention.

- 6388758 to Kawanabe et al, teaches a system for scheduling an event (i.e. print head cleaning) in a device based on elapsed time from the last printed completion time.
- 6398336 to Yoda et al, teaches a system for scheduling an event (i.e. print head cleaning) in a device based on an elapsed time from the last printed completion time.
- 5475404 to Takahashi et al, teaches a system for scheduling an event (i.e. recovery operation such as print head cleaning, suction, capping, and etc) in a device based on an elapsed time from the last printed completion time.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thierry L Pham whose telephone number is (703) 305-1897. The examiner can normally be reached on M-F (9:30 AM - 6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K Moore can be reached on (703)308-7452. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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GABRIEL GARCIA